

PROJECTED ITERATIONS: 331 TO 1029
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 12:44:46 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 809 TO ITERATE

100.0% PROCESSED 809 ITERATIONS
SEARCH TIME: 00.00.01

23 ANSWERS

L3 23 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

148.15

148.36

FILE 'CAPLUS' ENTERED AT 12:44:53 ON 07 AUG 2003

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FILE COVERS 1907 - 7 Aug 2003 VOL 139 ISS 6

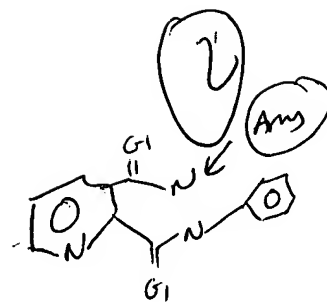
FILE LAST UPDATED: 6 Aug 2003 (20030806/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L4 12 L3

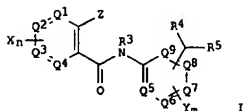
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L4 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2002:906127 CAPLUS
 DOCUMENT NUMBER: 137:384657
 TITLE: Preparation of aromatic amides as agrohorticultural insecticides.
 INVENTOR(S): Goto, Makoto; Yamaguchi, Minoru; Harayama, Hiroto; Nakao, Hayami; Furuya, Takashi; Tohnishi, Masanori; Morimoto, Masayuki; Fujioka, Shinsuke
 PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 83 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

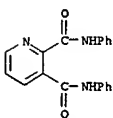
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002094765	A2	20021128	WO 2002-JP4742	20020516
WO 2002094765	A3	20030530		

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 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 JP 2003034673 A2 20030207 JP 2002-144977 20020520
 PRIORITY APPLN. INFO.: JP 2001-149365 A 20010518
 OTHER SOURCE(S): MARPAT 137:384657
 G1



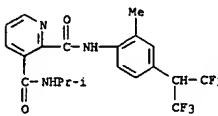
AB Title compds. [I; Z = CON(R2)AR1, (substituted) dihydroisoxazolyl; A = (substituted) alkylene, alkenylene, etc.; R1 = H, halo, cyano, NO2, cycloalkyl, alkoxyalkyl, (substituted) Ph, heterocyclyl, etc.; R2 = H, alkyl, alkoxyalkyl, alkythioalkyl; R3 = H, alkyl, alkoxyalkyl, alkythioalkyl; R4 = H, F, fluoroalkyl; R5 = F, fluoroalkyl; X = halo, NO2, cyano, alkyl, haloalkyl, etc.; Y = halo, (substituted) Ph, PhO, etc.; Q1-Q9 = C, N; a = 0-3; n = 0-2], were prepd. N-(1,1-dimethyl-2-methylthioethyl)-6-iodophthalic acid isoimide, 2-methyl-4-[2,2,2-trifluoro-1-(trifluoromethyl)ethyl]aniline (prepn. given), and CF3CO2H were stirred 2 h in THF to give N2-(1,1-dimethyl-2-methylthioethyl)-3-iodo-N1-[2-methyl-

L4 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2002:767251 CAPLUS
 DOCUMENT NUMBER: 138:204915
 TITLE: Improved synthesis of N-substituted 2,3-pyridinedicarboximides with microwave irradiation
 AUTHOR(S): Blanco, Maria M.; Levin, Gustavo J.; Schapira, Celia B.; Perillo, Isabel A.
 CORPORATE SOURCE: Department of Organic Chemistry, Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Buenos Aires, 1113, Argent.
 SOURCE: Heterocycles (2002), 57(10), 1881-1890
 CODEN: HETCYM; ISSN: 0385-5414
 PUBLISHER: Japan Institute of Heterocyclic Chemistry
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 138:204915
 AB The microwave-induced synthesis of N-substituted 2,3-pyridinedicarboximides by means of two different approaches is presented. One involves direct N-alkylation of a quinolinimide (Method A) and the other, dehydrative condensation of a quinolinic anhydride and amines (Method B). Reactions resulted highly accelerated, with improved yields in relation to those obtained by conventional heating. The scope and limitations of each method and its variants are discussed.
 IT 94301-63-OP
 RI: SPN (Synthetic preparation); PREP (Preparation) (prepn. and characterization of N-substituted pyridinedicarboximides from microwave irradiation-induced alkylation or dehydrative condensation reactions)
 RN 94301-63-0 CAPLUS
 CN 2,3-Pyridinedicarboxamide, N,N'-diphenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

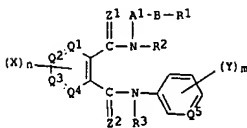
L4 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
 4-[2,2,2-trifluoro-1-(trifluoromethyl)ethyl]phenyl]phthalimide. Numerous 1 at 50 ppm gave 100% kill of Plutella xylostella and Spodoptera litura.
 IT 476336-87-59
 RI: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of arom. amides as agrohorticultural insecticides)
 RN 476336-87-5 CAPLUS
 CN 2,3-Pyridinedicarboxamide, N3-(1-methylethyl)-N2-[2-methyl-4-[2,2,2-trifluoro-1-(trifluoromethyl)ethyl]phenyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2001:472653 CAPLUS
 DOCUMENT NUMBER: 135:76795
 TITLE: Preparation of aromatic and heteroaromatic diamide derivatives as insecticides
 INVENTOR(S): Tohnishi, Masanori; Kohno, Eiji; Nakao, Hayami; Nishida, Tateki; Furuya, Takashi; Shimizu, Toshiaki; Seo, Akira; Sakata, Kazuyuki; Fujioka, Shinsuke
 PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 105 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

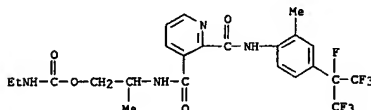
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001046124	A1	20010628	WO 2000-JP9146	20001222

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 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 AU 2001022229 A5 20010703 AU 2001-22229 20001222
 JP 2001240580 A2 20010904 JP 2000-390649 20001222
 BR 2000016573 A 20020903 BR 2000-16573 20001222
 EP 1241159 A1 20020918 EP 2000-985836 20001222
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 PRIORITY APPLN. INFO.: JP 1999-365408 A 19991222
 WO 2000-JP9146 W 20001222
 OTHER SOURCE(S): MARPAT 135:76795
 G1



AB The title compds. I [A1 is optionally substituted C1-8 alkylene, C3-8 alkenylene, or the like; B is O or N(R4) (wherein R4 is H, C1-6 alkyl, halo C1-6 alkyl, or the like); R1 is H, C1-6 alkyl, optionally substituted Ph, an optionally substituted heterocyclic group, or the like; R2 and R3 are each H, C3-6 cycloalkyl, or A2R8 (wherein A2 is CO, CS, or C(=NR9)); and R8 and R9 are each H, C1-6 alkyl, or the like); Q1 to Q5 are each

L4 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
carbon or nitrogen; X and Y are each halogeno, cyano, nitro, C3-6
cycloalkyl, optionally substituted Ph, an optionally substituted
heterocyclic group, or the like; m is 0 to 4; n is 1 to 5; and Z1 and Z2
are each 0 or S] are prepd. Comps. of this invention at 50 ppm gave 90%
to 99% control of *Plutella xylostella* and of *Spodoptera litura*.
IT 346575-48-2P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except
adverse); BSU (Biological study, unclassified); SPN (Synthetic
preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of arom. and heteroarom. diamide derivs. as insecticides)
RN 346575-48-2 CAPLUS
CN Carbanic acid, ethyl-, 2-[[[2-[[[2-methyl-4-[[1,2,2,2-tetrafluoro-1-
(trifluoromethyl)ethyl]phenyl]amino]carbonyl]-3-
pyridinyl]carbonyl]amino]propyl ester (9CI) (CA INDEX NAME)

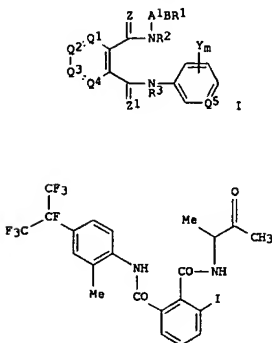


REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2001:228847 CAPLUS
DOCUMENT NUMBER: 134:252360
TITLE: Preparation and effect of aromatic diamide derivatives
or salts as agricultural/horticultural insecticides
INVENTOR(S): Tohnishi, Masanori; Nakao, Hayami; Kohno, Eiji;
Nishida, Tateki; Furuya, Takashi; Shimizu, Toshiaki;
Seo, Akira; Sakata, Kazuyuki; Fujioka, Shinsuke;
Kanno, Hideo
PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan
SOURCE: PCT Int. Appl., 86 pp.
CODEN: PIXKD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

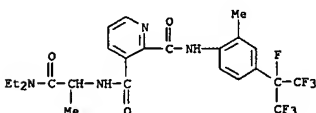
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001021576	A1	20010329	WO 2000-JP6514	20000922
V: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LA, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TH				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1215200	A1	20020619	EP 2000-961197	20000922
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
BR 2000014139	A	20020820	BR 2000-14139	20000922
JP 2001158764	A2	20010612	JP 2000-290844	20000925
PRIORITY APPLN. INFO.: JP 1999-270582 A 19990924				
WO 2000-JP6514 W 20000922				
OTHER SOURCE(S): MARPAT 134:252360				
GI				

L4 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



II

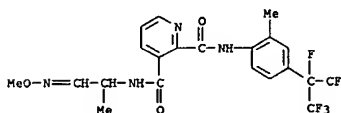
AB Title compds. [I; wherein A1 represents alkylene, alkenylene or alkynylene; B represents, CO, or CH(N); R1 to R3 represent each H, CH3, CH2CH3, OCH2H, NH2, NEt2, OMe, etc.; Q1-Q5 independently = CH, CH, N; X = 3-F, 3-Cl, 3-Br, 3-I, 6-I, 3-CF3, 3-OCF3, 3-NO2; Y represents halogeno, etc.; m is from 0 to 5; Z = O, S; Z1 = O, S] or salts thereof and agricultural/horticultural chems. contg. the same as the active ingredient are prepd. as insecticides. Thus, the title compd. II was prepd. and tested.
IT 331686-02-3P 331686-03-4P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. and effect of arom. diamide derivs. or salts as agricultural horticultural insecticides)
RN 331686-02-3 CAPLUS
CN 2,3-Pyridinedicarboxamide, N3-[2-(diethylamino)-1-methyl-2-oxoethyl]-N2-[2-methyl-4-[[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]- (9CI) (CA INDEX NAME)



RN 331686-03-4 CAPLUS

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L4 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
CN 2,3-Pyridinedicarboxamide, N3-[2-(methoxymino)-1-methylethyl]-N2-[2-methyl-4-[[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

8/07/2003

L4 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2003 ACS ON STN

ACCESSION NUMBER: 2001:12413 CAPLUS

DOCUMENT NUMBER: 134:71497

TITLE: Preparation of heterocyclic dicarboxylic acid diamide derivatives as agricultural and horticultural insecticides

INVENTOR(S): Katsuhira, Takeshi; Furuya, Takashi; Gotoh, Makoto; Tohnishi, Masanori; Takaishi, Hideo; Sakata, Kazuyuki; Morimoto, Masayuki; Seo, Akira

PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan

SOURCE: PCT Int. Appl., 160 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

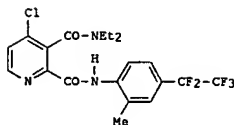
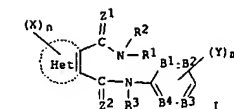
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001000575	A1	20010104	WO 2000-JP4136	20000623
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
BR 2000011818	A	20020319	BR 2000-11818	20000623
EP 1188745	A1	20020320	EP 2000-940823	20000623
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
AU 761273	B2	20030529	AU 2000-55689	20000623
JP 2001064258	A2	20010313	JP 2000-191500	20000626
PRIORITY APPLN. INFO.:			JP 1999-179035	A 19990624
			WO 2000-JP4136	W 20000623

OTHER SOURCE(S): MARPAT 134:71497

GI

L4 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2003 ACS ON STN

(Continued)



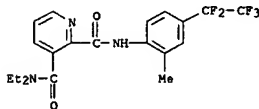
AB The title compds. I (R1, R2 and R3 represent each H, optionally halogenated C3-6 cycloalkyl, etc.; Het represents a 5- or 6-membered heterocycle; X and Y represent each halogeno, nitro, optionally halogenated C3-6 cycloalkyl, optionally substituted Ph, an optionally substituted heterocycle, etc. n is from 0 to 3; m is from 1 to 5; Z1 and Z2 represent each O or S; and B1 to B4 represent each C or N) are prepd. I have an excellent controlling effect on pest insects such as diamond-back moth (*Plutella xylostella*) and tobacco cutworm (*Spodoptera litura*). The title compd. II at 500 ppm gave .gtoreq. 90% control of *Plutella xylostella*.

IT 314762-51-1P 314762-52-2P 314762-53-3P
314762-54-4P 314762-55-5P 314762-56-6P
314762-57-7P 314762-58-8P 314762-59-9P

RI: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of heterocyclic dicarboxylic acid diamide derivs. as agricultural and horticultural insecticides)

RN 314762-51-1 CAPLUS

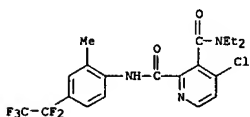
CN 2,3-Pyridinedicarboxamide, N3,N3-diethyl-N2-[2-methyl-4-(pentafluoroethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 314762-52-2 CAPLUS

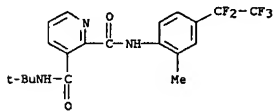
L4 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2003 ACS ON STN (Continued)

CN 2,3-Pyridinedicarboxamide, 4-chloro-N3,N3-diethyl-N2-[2-methyl-4-(pentafluoroethyl)phenyl]- (9CI) (CA INDEX NAME)



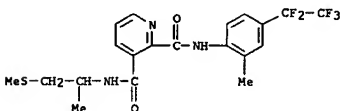
RN 314762-53-3 CAPLUS

CN 2,3-Pyridinedicarboxamide, N3-(1,1-dimethylethyl)-N2-[2-methyl-4-(pentafluoroethyl)phenyl]- (9CI) (CA INDEX NAME)



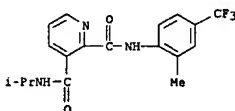
RN 314762-54-4 CAPLUS

CN 2,3-Pyridinedicarboxamide, N3-[1-methyl-2-(methylthio)ethyl]-N2-[2-methyl-4-(pentafluoroethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 314762-55-5 CAPLUS

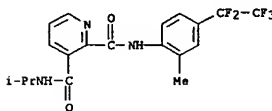
CN 2,3-Pyridinedicarboxamide, N3-(1-methylethyl)-N2-[2-methyl-4-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2003 ACS ON STN (Continued)

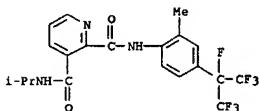
RN 314762-56-6 CAPLUS

CN 2,3-Pyridinedicarboxamide, N3-(1-methylethyl)-N2-[2-methyl-4-(pentafluoroethyl)phenyl]- (9CI) (CA INDEX NAME)



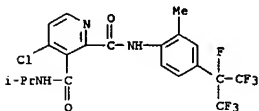
RN 314762-57-7 CAPLUS

CN 2,3-Pyridinedicarboxamide, N3-(1-methylethyl)-N2-[2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]- (9CI) (CA INDEX NAME)



RN 314762-58-8 CAPLUS

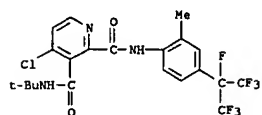
CN 2,3-Pyridinedicarboxamide, 4-chloro-N3-(1-methylethyl)-N2-[2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]- (9CI) (CA INDEX NAME)



RN 314762-59-9 CAPLUS

CN 2,3-Pyridinedicarboxamide, 4-chloro-N3-(1,1-dimethylethyl)-N2-[2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN

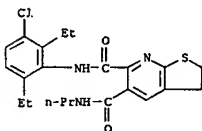
LA ANSWER 12 CAPLUS TRIGHT 2005 ACS ON SIN
ACCESSION NUMBER: 2000:98523 CAPLUS
DOCUMENT NUMBER: 132:151835
TITLE: Preparation of fused-heterocycle dicarboxylic diamide
derivatives or salts thereof, herbicides and usage
thereof
INVENTOR(S): Takaiishi, Hideo; Katsuhira, Takeshi; Yamaguchi,
Hiroshi; Kawabata, Yoichi; ~~Harayama~~, Hiroto; Oda,
Yoshiki; Murai, Masahiko
PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan
SOURCE: PCT Int. Appl., 118 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000006549	A1	200002210	WO 1999-JP4009	19990727
W: BR, CA, CN, KR, US RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2338827	AA	20000210	CA 1999-2338827	19990727
EP 1101758	A1	20010523	EP 1999-933115	19990727
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
BR 9512571	A	20011120	BR 1999-12571	19990727
JP 2000013708	A2	20000411	JP 1999-214000	19990728
US 6444617	B1	20020903	US 2001-744579	20010126
US 2003073582	A1	20030417	US 2002-133444	20020429
PRIORITY APPLN. INFO.:			JP 1998-212817	A 19980728
			WO 1999-JP3009	W 19990727
			WO 1999-JP4009	W 19990727
			US 2001-744579	A3 20010126
OTHER SOURCE(S):				
MARPAT 132:151835				
GI				

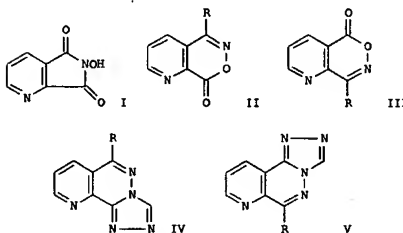
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Fused-heterocycle dicarbonyl diamide derivs. represented by general formula (I) wherein R1 is H or Cl-6 alkyl; R2 and R3 are each H, (halo)-Cl-6 alkyl, C3-8 cycloalkyl, substituted amino-Cl-6 alkyl, (substituted) phenyl-Cl-6 alkyl, (substituted) phenyl-Cl-6 alkoxy or the like, or R2 and R3 are united to form a 5- or 6-membered heterocycle bearing at least one member selected from among O, S and N; X is H, halogeno, No2, cyano, Cl-5 alkyl, (substituted) Ph, (substituted) phenoxyl or the like; Het = heterocyclic ring, e.g. Q, Q1, Q2, Q3, etc.; wherein Y, R4, and R5 are each H, halo, no2, cyano, alkyl or the like; and A, B, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, and n are as defined in the following examples. (substituted NH) and prepd. Thus, the amine was used to syn. of N-(3-chloro-2,6-diethylphenyl)-7-fluoro-2,3-quinoinediacarboxamide in THF and allowed to react for 12 h to give N-propyl-3-((3-chloro-2,6-

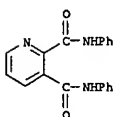
L4	ANSWER 6 of 12 CAPLUS COPYRIGHT 2003 ACS ON STN (Continued) diethylphenyl)amino)carboxyl)-7-fluoro-2-quinolinecarboxamide (II; X1 = F). II (X1 = H) at 5 kg/ha preemergence controlled 100% <i>Alopecurus aequalis</i> , <i>Echinochloa crus-galli</i> , <i>Abutilon theophrasti</i> , <i>Xanthium pensylvanicum</i> , <i>Galium spurius</i> , and <i>Veronica persica</i> and gave no injury to wheat and soy bean seedlings.
IT	257874-70-7 RL: RCT (Reactant); RACT (Reactant or reagent) (prepn. of fused-heterocycle dicarboxylic diamide derivs. as herbicides)
RN	257874-70-7 CAPLUS
CN	Thiopho[2,3-b]pyridine-5,6-dicarboxamide, N6-(3-chloro-2,6-diethylphenyl)- 2,3-dihydro-N5-propyl- (9CI) (CA INDEX NAME)



L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2003 ACS ON STN
ACCESSION NUMBER: 1998:469545 CAPLUS
DOCUMENT NUMBER: 129:189286
TITLE: New synthesis of pyrido[2,3-d]- and -[3,2-d]oxazines
AUTHOR(S): Fahmy, Amin F.; Sauer, Jürgen; Youssef, Mohamed Salah
K.; Abdel Halim, Mohamed Said; Hassan, Mamdouh A.
CORPORATE SOURCE: Chemistry Department, Ain Shams University, Cairo,
Egypt
SOURCE: Synthetic Communications (1998), 28(15), 2871-2886
CODEN: SYNCAV; ISSN: 0039-7911
PUBLISHER: Marcel Dekker, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
SI



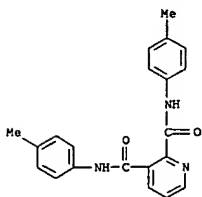
AB	N-Hydroxy-2,3-pyridinedicarboximide (I) reacts with arom. amines, hydrazine hydrate, and arom. hydrocarbons to give 2,3-bis(arylcarbamoyl)pyridines, pyrrolopyridines, pyridopyridazines, and pyridoxazines. II [R = (un)substituted phenyl] and III (same R). II and III can be further converted into triazolopyridopyridazines IV and V through series of reactions.
IT	94301-63-0 211629-95-7P 211629-96-6P 211629-97-9P RL: SPN (Synthetic Preparation); PREP (Preparation) (prep. of) RN 94301-63-0 CAPUS CN 2,3-Pyridinedicarboximide, N,N'-diphenyl- (9CI) (CA INDEX NAME)



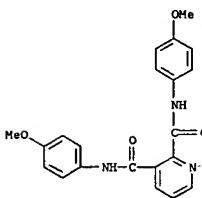
RN 211629-95-7 CAPLUS

8/07/2003

L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)
 CN 2,3-Pyridinedicarboxamide, N,N'-bis(4-methylphenyl)- (9CI) (CA INDEX NAME)

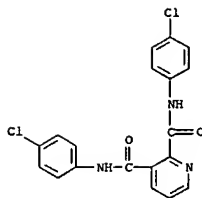


RN 211629-96-8 CAPLUS
 CN 2,3-Pyridinedicarboxamide, N,N'-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



RN 211629-97-9 CAPLUS
 CN 2,3-Pyridinedicarboxamide, N,N'-bis(4-chlorophenyl)- (9CI) (CA INDEX NAME)

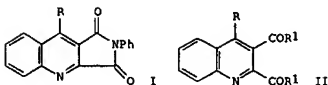
L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



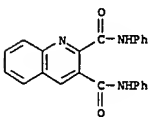
REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1984:551774 CAPLUS
 DOCUMENT NUMBER: 101:151774
 TITLE: Potential antiallergic agents. IV. Synthesis and biological evaluation of quinoline-2,3-dicarboximide derivatives
 AUTHOR(S): Liu, Kang Chien; Shib, Bi Jane
 CORPORATE SOURCE: Dep. Pharm., Natl. Def. Med. Cent., Taipei, Taiwan
 SOURCE: Taiwan Yaoxue Zazhi (1983), 35(2), 119-24
 CODEN: JTPHAO; ISSN: 0368-4520
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

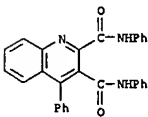
L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



AB Imides I (R = H, Ph) were prepd., and they exhibited antiallergic activity. Thus, 2-H₂NCH₂CHO was treated with MeO₂CC.tplbond.CO₂Me to yield diester II (R = H, R1 = OMe), the latter was converted to diamide II (R = H, R1 = NHPh), and the product was heated with Ac₂O to give I (R = H).
 IT 92263-09-7P 92263-10-0P
 RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and cyclocondensation of)
 RN 92263-09-7 CAPLUS
 CN 2,3-Quinolinedicarboxamide, N,N'-diphenyl- (9CI) (CA INDEX NAME)



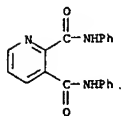
RN 92263-10-0 CAPLUS
 CN 2,3-Quinolinedicarboxamide, N,N',4-triphenyl- (9CI) (CA INDEX NAME)



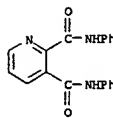
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L4 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2003 ACS ON STN
 ACCESSION NUMBER: 1964:90664 CAPLUS
 DOCUMENT NUMBER: 60:90664
 ORIGINAL REFERENCE NO.: 60:15809g-h
 TITLE: Catalytic reduction of furan carbonyl and hydroxy compounds
 AUTHOR(S): Shuikin, N. I.; Bel'skii, I. F.; Savekina, O. N.
 CORPORATE SOURCE: W. D. Zelinskii Inst. Org. Chem., Moscow
 SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1964), (3), 534-7
 CODEN: IASKA6; ISSN: 0002-3353
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB 2-Acylfurans were reduced in 95% yield to the corresponding alkylfurans over Raney Cu at 220.degree.; thus were obtained 2-methyl-5-propyl-, 2,4-dimethyl-5-ethyl-, and 2-methyl-4,5-diethylfurans. Alkylfurylcarbinols were reduced at 220.degree. over 10% Pt-C or Raney Ni to the corresponding alkylfurans, which, in turn, were converted by hydrogenolysis into aliphatic ketones; the C-O bond cleavage took place over Pt-C, while over Raney Ni a conjugated hydrogenolysis took place to yield mixts. of 35-50% 2-alkylfurans and 40-50% aliphatic ketones.
 IT 94301-63-0, 2,3-Pyridinedicarboxanilide (prepn. of)
 RN 94301-63-0 CAPLUS
 CN 2,3-Pyridinedicarboxamide, N,N'-diphenyl- (9CI) (CA INDEX NAME)

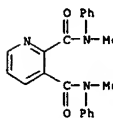


L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2003 ACS ON STN
 ACCESSION NUMBER: 1964:90663 CAPLUS
 DOCUMENT NUMBER: 60:90663
 ORIGINAL REFERENCE NO.: 60:15809f-h
 TITLE: Acylations with the acid chlorides of 2,5-diphenylfuran-3,4-dicarboxylic acid and related compounds. II
 AUTHOR(S): Nightingale, Dorothy V.; Needles, Howard L.
 CORPORATE SOURCE: Univ. of Missouri, Columbia
 SOURCE: Journal of Heterocyclic Chemistry (1964), 1(2), 74-5
 CODEN: JHTCAD; ISSN: 0022-152X
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB cf. CA 53, 21869c. The Friedel-Crafts acylation of 6 phenol ethers with 2,5-diphenylfuran-3,4-dicarbonyl chloride and with 2,5-dimethylfuran-3,4-dicarbonyl chloride yielded 2,5-disubstituted-3,4-diaroylfurans or cyclic diketones. 2,5-Diphenylfuran-3,4-dicarboxylic acid anhydride were treated with these ethers to form oxo acids.
 IT 94301-63-0, 2,3-Pyridinedicarboxanilide (prepn. of)
 RN 94301-63-0 CAPLUS
 CN 2,3-Pyridinedicarboxamide, N,N'-diphenyl- (9CI) (CA INDEX NAME)

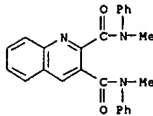


L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2003 ACS ON STN
 ACCESSION NUMBER: 1963:469038 CAPLUS
 DOCUMENT NUMBER: 59:69038
 ORIGINAL REFERENCE NO.: 59:12754b-g
 TITLE: Hydrogenolysis of N-substituted amides of pyridinedi- and -tricarboxylic acids
 AUTHOR(S): Ried, W.; Neidhardt, G.
 CORPORATE SOURCE: Univ. Frankfurt a. M., Germany
 SOURCE: Ann. (1963), 666, 148-55
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB Amides of various pyridine and quinolinecarboxylic acids can be reduced to the corresponding aldehydes by use of LiAlH₄ (I) in tetrahydrofuran (II). 3,5-Dimethylpyrazolides (III) and N-methylanilides (IV) of such acids were prepd. in good yields by the reaction of the acid chlorides (V) with 3,5-dimethylpyrazole (VI) or PhNHMe in abs. II. 3,4-Pyridinedicarbonyl chloride (VII) and 2,3-quinolinedicarbonyl chlorides (VIII) were prepd. from the acids (0.10 mole) by heating with 0.21 mole PCl₅ and distg. or crystg. the products to give 94% VII, b10 130.degree., and 95% VIII, m. 125-6.degree. (Et₂O-ligroine). The remaining V were prepd. from 0.05 mole acid and 0.45 mole SOCl₂, the time of reaction being reduced to 2 hrs. by addn. of 2 ml. HOAcMe₂; thus, 2,4,6-pyridinetricarbonyl chloride was prepd. in 95% yield, m. 89-91.degree. (C₆H₆-ligroine). 2,6-Pyridinedicarbonyl chloride (4.1 g.) in 30 ml. II was added slowly with stirring to a soln. of 0.08 mole VI in 50 ml. II. After 5 hrs. the mixt. was filtered with suction and the ppt. washed with 10 ml. II. The filtrate was evapd. in vacuo and the residue washed with Et₂O to remove VI. Recrystn. from dioxane or C₆H₆ gave 95% colorless needles, m. 197.degree.. Similarly prepd. were the following III (pyridinecarboxylic acid isomer, % yield, m.p., and solvent of crystn. given): 2,3-, 92, 142-3.degree., C₆H₆-ligroine; 2,5-, 83, 188.degree., dioxane; 3,4-, 80, 113.degree., Et₂O-ligroine; 2,4,6-, 90, 179-80.degree., dioxane-Et₂O; (2,3-quinolinedicarbonylic acid, 86, 181.degree., C₆H₆-ligroine). The following IV were prepd. (data as above): 2,3-, 93, 149.degree., C₆H₆-ligroine; 2,4-, 87, 169-70.degree., C₆H₆; 2,5-, 91, 159.degree., C₆H₆; 2,6-, 96, 167-8.degree., C₆H₆; 2,3-, 80, 183.degree., C₆H₆-ligroine; 2,4,6-, 94, 225.degree., C₆H₆ (2,3-quinolinedicarbonylic acid, 88, 183.degree., C₆H₆-ligroine). I was added in small portions with stirring to a soln. of 0.01 mole III or IV in 70-100 ml. II at 0.degree. and the mixt. was stirred at 15.degree.. The complex was decompd. with 2N HCl and the soln. made weakly alk. with 2N Na₂CO₃. The ppt. was filtered off with suction and washed with 30-50 ml. warm CHCl₃. The aq. soln. of II was extd. exhaustively with CHCl₃. The exts. were dried over Na₂SO₄ and freed from CHCl₃. Unchanged III or IV pptd. when the residue was dissolved in warm Et₂O. Distn. in vacuo of Et₂O and amine gave crude aldehydes (IX). 1,3-Diphenylimidazolidines (X), were prepd. from IX and dianilinomethane in MeOH and crystd. from MeOH or dioxane. Decompn. of X with dil. HCl and repeated sublimation gave pure IX, e.g., 2,5-pyridinedicarboxaldehyde, m. 67-9.degree., n_D²⁰ 1.698, 1724 cm.⁻¹ The reaction of IX with excess o-H₂NCH₂CH₂NH₂ in boiling EtOH gave benzothiazolylpyridines (XI) which were crystd. from MeCOEt or dioxane. The following IX were prepd. (pyridine acid amide, I, mole, time, hrs. at 15.degree., % yield, 2,4-dinitrophenylhydrazones m.p., X m.p.): III 2,3-isomer, 0.33, 15, 60 (or IV 2,3-isomer, 0.33, 12, 61), 265.degree., -, -; III 3,4-isomer, 0.33, 18, 53 (or IV 3,4-isomer, 0.5, 6, 54), 268.degree., -, -; 2,4-isomer, 0.5, 5, 67, -, 242.degree., 223.degree.; III 2,5-isomer, 0.33, 20, 53 (or IV 2,5-isomer, 0.5, 5, 58), 335.degree., 272.degree., 317.degree.; III 2,6-isomer, 0.33, 18, 70, (or IV 2,6-isomer, 0.5, 1, 91), 302.degree., 256.degree., 276.degree.; III 2,4,6-isomer, 0.33, 18, 49 (or IV 2,4,6-isomer, 0.5, 6, 53), -, 278.degree., 380.degree. (decompn.).

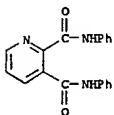
L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2003 ACS ON STN (Continued)
 7-Oxo-6,8-diphenyl-7H-cyclohepta[c]pyridine was prepd. from 3,4-pyridinedicarboxaldehyde (from 0.01 mole IV) and 0.01 mole (PhCH₂)₂CO in 30 ml. EtOH and 1 ml. KOH in MeOH, yellow needles, m. 128.degree. (aq. EtOH).
 IT 94870-71-0, 2,3-Pyridinedicarboxanilide, N,N'-dimethyl- 95804-16-3, 2,3-Quinolinedicarboxanilide, N,N'-dimethyl- (prepn. of)
 RN 94870-71-0 CAPLUS
 CN 2,3-Pyridinedicarboxanilide, N,N'-dimethyl- (7CI) (CA INDEX NAME)



RN 95804-16-3 CAPLUS
 CN 2,3-Quinolinedicarboxanilide, N,N'-dimethyl- (7CI) (CA INDEX NAME)



L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1962:25020 CAPLUS
DOCUMENT NUMBER: 56:25020
ORIGINAL REFERENCE NO.: 56:4720d-g
TITLE: Reaction of quinolinimide and N-substituted
quinolinimides with amines
AUTHOR(S): Dimitrijevic, Djordje M.; Tadic, Zivorad D.
CORPORATE SOURCE: Inst. Org. Chem., Beograd, Yugoslavia
SOURCE: Glaz nik Hem. Drustva, Beograd (1957), 22, 473-81
DOCUMENT TYPE: Journal
LANGUAGE: German
AB cf. CA 50, 7109g; 54, 4565e.-Reaction of quinolinimide (I) with amines was
compared to the analogous reaction of quinolinic anhydride as to rate and
direction of ring opening. Exptl. results confirmed predictions made on
theoretical grounds. I and its N-substituted derivs. reacted more slowly
than the anhydrides, less readily with feebly basic amines, and gave both
possible products of ring-opening. The nature of the N-substituent
affected principally the reaction rate. I (1 g.) and 2 ml. PhCH2NH2 (II)
in 40 ml. anhyd. C6H6 kept several hrs. at room temp., the ppt. removed,
and recrystd. from EtOH gave 0.25 g. 2,3-H2NCOC5H3NCONHCH2Ph; from the
EtOH soln. was recovered 0.88 g. 3,2-isomer, m. 134-5.degree. (EtOH). I
did not react with PhNH2 or NH3 under similar conditions.
N-Benzylquinolinimide did not react with PhNH2 or NH3 but with II gave
2,3-(PhCH2NHCO)2C5H3N. N-Phenylquinolinimide did not react with NH3 but
with PhNH2 gave 2,3-(PhNHCO)2C5H3N and with II gave principally
2,3-PhCH2NHCOCSH3-NCONHPh. N-Cyclohexylquinolinimide did not react with
NH3.
IT 94301-63-0, 2,3-Pyridinedicarboxanilide
(prepn. of)
RN 94301-63-0 CAPLUS
CN 2,3-Pyridinedicarboxamide, N,N'-diphenyl- (9CI) (CA INDEX NAME)



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COST IN U.S. DOLLARS

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SESSION

FULL ESTIMATED COST

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

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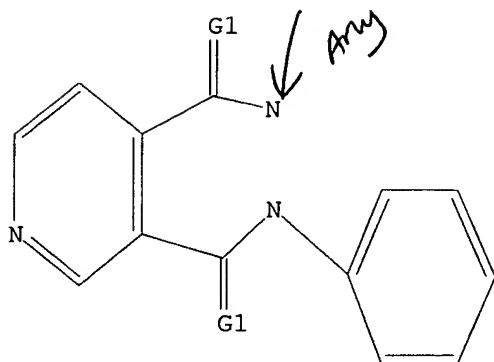
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 BATCH **COMPLETE**
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FULL ESTIMATED COST

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FILE LAST UPDATED: 6 Aug 2003 (20030806/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L4 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2001:472653 CAPLUS

DOCUMENT NUMBER: 135:76795

TITLE:

Preparation of aromatic and heteroaromatic diamide derivatives as insecticides
 Inventor(s): Tohnishi, Masanori; Kohno, Eiji; Nakao, Hayami; Nishida, Tateki; Furuya, Takashi; Shimizu, Toshiaki; Seo, Akira; Sakata, Kazuyuki; Fujioka, Shinsuke

PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan

SOURCE: PCT Int. Appl., 105 pp.

CODEN: PIXXD2

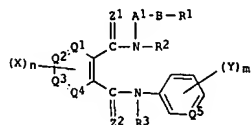
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001046124	A1	20010628	WO 2000-JP9146	20001222
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 2001022229	A5	20010703	AU 2001-22229	20001222
JP 2001240580	A2	20010904	JP 2000-390649	20001222
BR 2000016573	A	20020903	BR 2000-16573	20001222
EP 1241159	A1	20020918	EP 2000-985836	20001222
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
PRIORITY APPLN. INFO.:			JP 1999-365408	A 19991222
			WO 2000-JP9146	W 20001222
OTHER SOURCE(S):		MARPAT 135:76795		
GI				



AB The title compds. I [A1 is optionally substituted C1-8 alkylene, C3-8 alkenylene, or the like; B is O or N(R4) (wherein R4 is H, C1-6 alkyl,

L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2001:228847 CAPLUS

DOCUMENT NUMBER: 134:252360

TITLE:

Preparation and effect of aromatic diamide derivatives or salts as agricultural/horticultural insecticides
 Inventor(s): Tohnishi, Masanori; Nakao, Hayami; Kohno, Eiji; Nishida, Tateki; Furuya, Takashi; Shimizu, Toshiaki; Seo, Akira; Sakata, Kazuyuki; Fujioka, Shinsuke; Kanno, Hideo

PATENT ASSIGNEE(S): Nihon Nohyaku Co., Ltd., Japan

SOURCE: PCT Int. Appl., 86 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001021576	A1	20010329	WO 2000-JP6514	20000922
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1215200	A1	20020619	EP 2000-961197	20000922
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			
BR 2000014139	A	20020820	BR 2000-14139	20000922
JP 2001158764	A2	20010612	JP 2000-290844	20000925
PRIORITY APPLN. INFO.:			JP 1999-270582	A 19990924
			WO 2000-JP6514	W 20000922
OTHER SOURCE(S):		MARPAT 134:252360		
GI				

L4 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

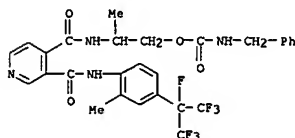
halo C1-6 alkyl, or the like); R1 is H, C1-6 alkyl, optionally substituted Ph, an optionally substituted heterocyclic group, or the like; R2 and R3 are each H, C3-6 cycloalkyl, or A2R8 (wherein A2 is CO, CS, or C(NR9)); and R8 and R9 are each H, C1-6 alkyl, or the like); Q1 to Q5 are each carbon or nitrogen; X and Y are each halogeno, cyano, nitro, C3-6 cycloalkyl, optionally substituted Ph, an optionally substituted heterocyclic group, or the like; n is 0 to 4; m is 1 to 5; and Z1 and Z2 are each O or S] are prepd. Comps. of this invention at 50 ppm gave 90% to 99% control of Plutella xylostella and of Spodoptera litura.

IT 346575-47-1P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of arom. and heteroarom. diamide derivs. as insecticides)

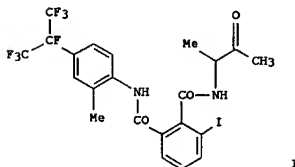
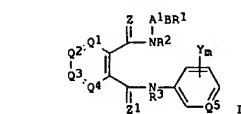
RN 346575-47-1 CAPLUS

CN Carbanic acid, (phenylmethyl)-, 2-[[[3-[[[2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]amino]carbonyl]-4-pyridinyl]carbonyl]amino]propyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



AB Title compds. [I; wherein A1 represents alkylene, alkenylene or alkynylene; B represents CO, or CH(N); R1 to R3 represent each H, CH3, CH2CH3, OCH2Ph, NH2, NEt2, OMe, etc.; Q1-Q5 independently = CX, CH, N; X = 3-F, 3-Cl, 3-Br, 3-I, 6-I, 3-CF3, 3-OCF3, 3-NO2; Y represents halogeno, etc.; m is from 0 to 5; Z = O, S; Z1 = O, S] or salts thereof and agricultural/horticultural chems. contg. the same as the active ingredient are prepd. as insecticides. Thus, the title compd. II was prepd. and tested.

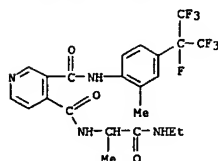
IT 331686-00-1P 331686-01-2P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. and effect of arom. diamide derivs. or salts as agricultural horticultural insecticides)

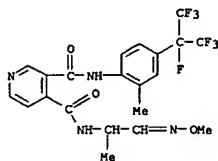
RN 331686-00-1 CAPLUS

CN 3,4-Pyridinedicarboxamide, N4-[2-(ethylamino)-1-methyl-2-oxoethyl]-N3-[2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



RN 331686-01-2 CAPLUS
 CN 3,4-Pyridinedicarboxamide, N4-[2-(methoxyimino)-1-methylethyl]-N3-[2-methyl-4-[(1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]- (9CI) (CA INDEX NAME)



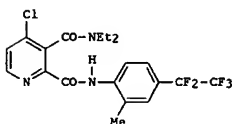
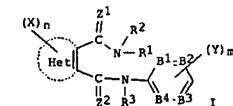
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2001:12413 CAPLUS
 DOCUMENT NUMBER: 134:71497
 TITLE: Preparation of heterocyclic dicarboxylic acid diamide derivatives as agricultural and horticultural insecticides
 INVENTOR(S): Katsuhira, Takeshi; Furuya, Takashi; Gotoh, Makoto; Tohnishi, Masanori; Takaishi, Hideo; Sakata, Kazuyuki; Morimoto, Masayuki; Seo, Akira
 PATENT ASSIGNER(S): Nihon Nohyaku Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 160 pp.
 CODEN: PIXX02
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001000575	A1	20010104	WO 2000-JP4136	20000623
V: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 2000011818	A	20020319	BR 2000-11818	20000623
EP 1188745	A1	20020320	EP 2000-940823	20000623
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
AU 761273	B2	20030529	AU 2000-55689	20000623
JP 2001064258	A2	20010313	JP 2000-191500	20000626
PRIORITY APPLN. INFO.: JP 1999-179035 A 19990624				
WO 2000-JP4136 W 20000623				
OTHER SOURCE(S): MARPAT 134:71497				
GI				

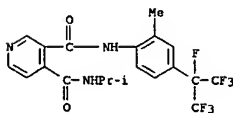
L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



AB The title compds. I (R1, R2 and R3 represent each H, optionally halogenated C3-6 cycloalkyl, etc.; Het represents a 5- or 6-membered heterocycle; X and Y represent each halocyclo, nitro, optionally halogenated C3-6 cycloalkyl, optionally substituted Ph, an optionally substituted heterocycle, etc.; n is from 0 to 3; m is from 1 to 5; Z1 and Z2 represent each O or S; and B1 to B4 represent each C or N) are prepd. I have an excellent controlling effect on pest insects such as diamond-back moth (*Plutella xylostella*) and tobacco cutworm (*Spodoptera litura*). The title compd. II at 500 ppm gave .gtoreq. 90% control of *Plutella xylostella*.

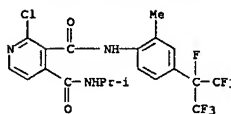
IT 314762-60-2P 314762-61-3P 314762-62-4P
 314762-63-5P 314762-64-6P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of heterocyclic dicarboxylic acid diamide derivs. as agricultural and horticultural insecticides)

RN 314762-60-2 CAPLUS
 CN 3,4-Pyridinedicarboxamide, N3-(1-methylethyl)-N2-[2-methyl-4-[(1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]- (9CI) (CA INDEX NAME)

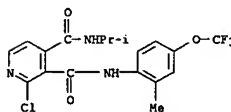


RN 314762-61-3 CAPLUS
 CN 3,4-Pyridinedicarboxamide, 2-chloro-N3-(1-methylethyl)-N2-[2-methyl-4-[(1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]- (9CI) (CA INDEX NAME)

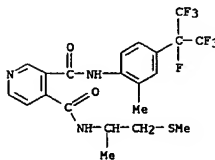
L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



RN 314762-62-4 CAPLUS
 CN 3,4-Pyridinedicarboxamide, 2-chloro-N3-(1-methylethyl)-N2-[2-methyl-4-[(1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]- (9CI) (CA INDEX NAME)



RN 314762-63-5 CAPLUS
 CN 3,4-Pyridinedicarboxamide, N3-(1-methyl-2-(methylthio)ethyl)-N2-[2-methyl-4-[(1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]- (9CI) (CA INDEX NAME)

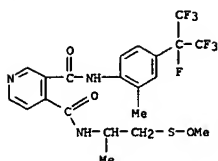


RN 314762-64-6 CAPLUS
 CN 1-Propanesulfonic acid, 2-[[[3-[[[2-methyl-4-[(1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]phenyl]amino]carbonyl]-4-pyridinyl]carbonyl]amino]-, methyl ester (9CI) (CA INDEX NAME)

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L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

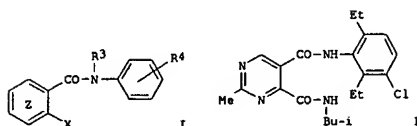


REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1999:576911 CAPLUS
DOCUMENT NUMBER: 131:199705
TITLE: Preparation of heterocyclic anilides as herbicides
INVENTOR(S): Akiyama, Shigeaki; Kondo, Yasuo; Adachi, Michiaki; Mizukoshi, Takashi; Watanabe, Shigeomi; Akiyoshi, Chiaki; Ohki, Tooru; Nakahira, Kunimitsu
PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 256 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

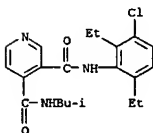
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9944992	A1	19990910	WO 1999-JP1048	19990304
V: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TH, RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9927458	A1	19990920	AU 1999-27458	19990304
PRIORITY APPLN. INFO.: JP 1998-53485 19980305 JP 1998-165661 19980612 JP 1998-268025 19980922 WO 1999-JP1048 19990304				
OTHER SOURCE(S): MARPAT 131:199705				
GI				



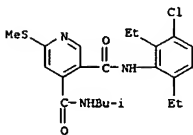
AB The title compds. I [ring Z represents 3,4-substituted pyridine, pyrimidine, or pyrazine which are optionally substituted with alkyl, etc.; R3 represents H, Cl-6 alkyl, (substituted) phenylalkyl, etc.; R4 represents H, halogeno, nitro, cyano, Cl-6 alkyl, etc.; and X represents alkoxy, carbonyl, alkylamino, carbonyl, cyano, alkyl, carbonyl, (substituted) oxadiazolyl, etc.] are prepd. The title compd. II (at 2.5 g/are) gave .gtoreq. 90% control of barnyard grass and caused no damage to

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

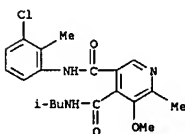
rice plants.
IT 241469-22-7P 241469-23-8P 241469-24-9P
241469-25-0P 241469-26-1P 241469-27-2P
241469-28-3P 241469-29-4P 241469-30-7P
241469-31-8P 241469-32-9P 241469-33-0P
241469-34-1P 241469-34-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of heterocyclic anilides as herbicides)
RN 241469-22-7 CAPLUS
CN 3,4-Pyridinedicarboxamide, N3-(3-chloro-2,6-diethylphenyl)-N4-(2-methylpropyl)- (9CI) (CA INDEX NAME)



RN 241469-23-8 CAPLUS
CN 3,4-Pyridinedicarboxamide, N3-(3-chloro-2,6-diethylphenyl)-N4-(2-methylpropyl)-6-(methylthio)- (9CI) (CA INDEX NAME)



RN 241469-24-9 CAPLUS
CN 3,4-Pyridinedicarboxamide, N3-(3-chloro-2-methylphenyl)-5-methoxy-6-methyl-N4-(2-methylpropyl)- (9CI) (CA INDEX NAME)

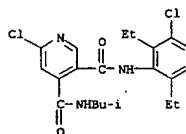


RN 241469-25-0 CAPLUS

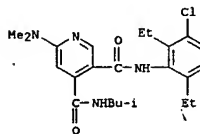
Habte

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

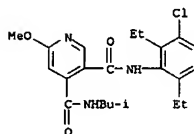
CN 3,4-Pyridinedicarboxamide, 6-chloro-N3-(3-chloro-2,6-diethylphenyl)-N4-(2-methylpropyl)- (9CI) (CA INDEX NAME)



RN 241469-26-1 CAPLUS
CN 3,4-Pyridinedicarboxamide, N3-(3-chloro-2,6-diethylphenyl)-6-(dimethylamino)-N4-(2-methylpropyl)- (9CI) (CA INDEX NAME)



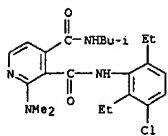
RN 241469-27-2 CAPLUS
CN 3,4-Pyridinedicarboxamide, N3-(3-chloro-2,6-diethylphenyl)-6-methoxy-N4-(2-methylpropyl)- (9CI) (CA INDEX NAME)



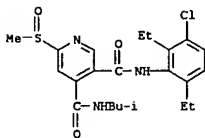
RN 241469-28-3 CAPLUS
CN 3,4-Pyridinedicarboxamide, N3-(3-chloro-2,6-diethylphenyl)-2-(dimethylamino)-N4-(2-methylpropyl)- (9CI) (CA INDEX NAME)

8/07/2003

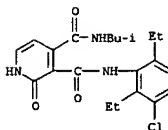
L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



RN 241469-29-4 CAPLUS
CN 3,4-Pyridinedicarboxamide, N3-(3-chloro-2,6-diethylphenyl)-N4-(2-methylpropyl)-6-(methylsulfinyl)- (9CI) (CA INDEX NAME)

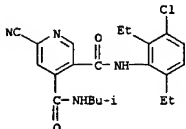


RN 241469-30-7 CAPLUS
CN 3,4-Pyridinedicarboxamide, N3-(3-chloro-2,6-diethylphenyl)-1,2-dihydro-N4-(2-methylpropyl)-2-oxo- (9CI) (CA INDEX NAME)

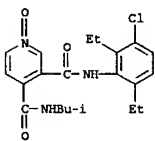


RN 241469-31-8 CAPLUS
CN 3,4-Pyridinedicarboxamide, N3-(3-chloro-2,6-diethylphenyl)-5-methoxy-6-methyl-N4-(2-methylpropyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

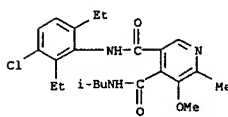


RN 241469-34-1 CAPLUS
CN 3,4-Pyridinedicarboxamide, N3-(3-chloro-2,6-diethylphenyl)-N4-(2-methylpropyl)-, 1-oxide (9CI) (CA INDEX NAME)

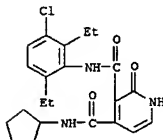


REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

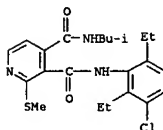
L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)



RN 241469-32-9 CAPLUS
CN 3,4-Pyridinedicarboxamide, N3-(3-chloro-2,6-diethylphenyl)-N4-cyclopentyl-1,2-dihydro-2-oxo- (9CI) (CA INDEX NAME)



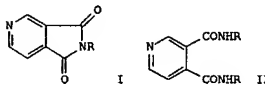
RN 241469-33-0 CAPLUS
CN 3,4-Pyridinedicarboxamide, N3-(3-chloro-2,6-diethylphenyl)-N4-(2-methylthio)- (9CI) (CA INDEX NAME)



RN 241469-34-1 CAPLUS
CN 3,4-Pyridinedicarboxamide, N3-(3-chloro-2,6-diethylphenyl)-6-cyano-N4-(2-methylpropyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN

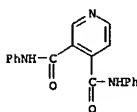
ACCESSION NUMBER: 1991:449341 CAPLUS
DOCUMENT NUMBER: 115:49341
TITLE: A new method for the synthesis of N,N'-disubstituted picolinic amides
AUTHOR(S): Hussein, Salim H.; Ahmed, Badie A.; Al-Kattan, Widad T.; Al-Rawi, Jasim M. A.
CORPORATE SOURCE: Coll. Sci., Univ. Mosul, Mosul, Iraq
SOURCE: Asian Journal of Chemistry (1991), 3(1), 52-7
CODEN: AJCHEW; ISSN: 0970-7077
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 115:49341
GI



AB Reaction of N-substituted pyrolopyridinediones I (R = Bu, CHMe2, CH2Ph, substituted Ph) with RNH2 gave a series of new N,N'-disubstituted picolinic amides II in good yields.

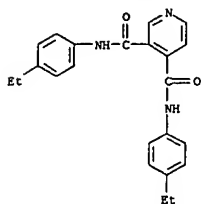
IT 94301-64-1P 134852-18-9P 134852-19-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prep. of)

RN 94301-64-1 CAPLUS
CN 3,4-Pyridinedicarboxamide, N,N'-diphenyl- (9CI) (CA INDEX NAME)

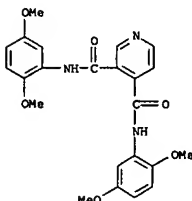


RN 134852-18-9 CAPLUS
CN 3,4-Pyridinedicarboxamide, N,N'-bis(4-ethylphenyl)- (9CI) (CA INDEX NAME)

L4 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

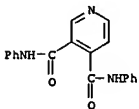


RN 134852-19-0 CAPLUS
CN 3,4-Pyridinedicarboxamide, N,N'-bis(2,5-dimethoxyphenyl)- (9CI) (CA INDEX NAME)



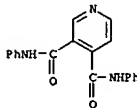
L4 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1964:90663 CAPLUS
DOCUMENT NUMBER: 60:90663
ORIGINAL REFERENCE NO.: 60:15809[h]
TITLE: Acylations with the acid chlorides of 2,5-diphenylfuran-3,4-dicarboxylic acid and 2,5-dimethylfuran-3,4-dicarboxylic acid and related compounds. II
AUTHOR(S): Nightingale, Dorothy V.; Needles, Howard L.
CORPORATE SOURCE: Univ. of Missouri, Columbia
SOURCE: Journal of Heterocyclic Chemistry (1964), 1(2), 74-5
CODEN: JHCTAD; ISSN: 0022-152X
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. CA 53, 21869c. The Friedel-Crafts acylation of 6 phenol ethers with 2,5-diphenylfuran-3,4-dicarbonyl chloride and with 2,5-dimethylfuran-3,4-dicarbonyl chloride yielded 2,5-disubstituted-3,4-diaroylfurans or cyclic diketones. 2,5-Diphenylfuran-3,4-dicarboxylic acid anhydride were treated with these ethers to form oxo acids.
IT 94301-64-1, 3,4-Pyridinedicarboxanilide (prepn. of)
RN 94301-64-1 CAPLUS
CN 3,4-Pyridinedicarboxamide, N,N'-diphenyl- (9CI) (CA INDEX NAME)



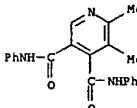
L4 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1964:90664 CAPLUS
DOCUMENT NUMBER: 60:90664
ORIGINAL REFERENCE NO.: 60:15809[h]
TITLE: Catalytic reduction of furan carbonyl and hydroxy compounds.
AUTHOR(S): Shuikin, N. I.; Bel'skii, I. F.; Savekina, O. N.
CORPORATE SOURCE: N. D. Zelinskii Inst. Org. Chem., Moscow
SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1964), (3), 534-7
CODEN: IASKA6; ISSN: 0002-3353
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB 2-Acylfurans were reduced in 95% yield to the corresponding alkylfurans over Raney Cu at 220.degree.; thus were obtained 2-methyl-5-propyl-, 2,4-dimethyl-5-ethyl-, and 2-methyl-4,5-diethylfurans. Alkylfurylcarbinols were reduced at 220.degree. over 10% Pt-C or Raney Ni to the corresponding alkylfurans, which, in turn, were converted by hydrogenolysis into aliphatic ketones; the C-O bond cleavage took place over Pt-C, while over Raney Ni a conjugated hydrogenolysis took place to yield mxts. of 35-50% 2-alkylfurans and 40-50% aliphatic ketones.
IT 94301-64-1, 3,4-Pyridinedicarboxanilide (prepn. of)
RN 94301-64-1 CAPLUS
CN 3,4-Pyridinedicarboxamide, N,N'-diphenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1960:62722 CAPLUS
DOCUMENT NUMBER: 54:62722
ORIGINAL REFERENCE NO.: 54:1213ic-g
TITLE: Reaction of pyridine-3,4-dicarboxylic acids with hydrazine and aniline
AUTHOR(S): Kondrat'eva, G. Ya.; Huang, Chih-Heng
CORPORATE SOURCE: N. D. Zelinskii Inst. Org. Chem., Moscow
SOURCE: Doklady Akademii Nauk SSSR (1960), 131, 94-7
CODEN: DANKAS; ISSN: 0002-3264
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB Heating 2,5,6-trimethylpyridine-3,4-dicarboxylic acid with N2H4.H2O in (CH2OH)2 15 min. gave 60% corresponding N,N-hydrazide (I), m. 211-12.degree., which heated with salicylaldehyde in EtOH gave 89-92% o-hydroxybenzylidene deriv., C17H15N3O2, m. 191-1.5.degree.; the p-hydroxy analog m. 233-4.5.degree.. The insol. material from isolation of 2,5-di-Me analog of I was extd. with hot EtOH to leave 5% pyridazinedione, m. 328-31.degree., while the alc. ext. yielded 67.5% 2,5-dimethylpyridine-3,4-dicarboxylic acid N,N-hydrazide, m. 175-8.degree.. Heating this acid as above with N2H4.H2O (4 g./1. g.) in (CH2OH)2 1 hr. gave 60% 2,5-dimethylpyrido[3,4-d]pyridazinedione, decompd. 333.degree.. Similarly were prepd.: 70% 2,6-dimethylpyrido[3,4-d]pyridazinedione, decompd. 290-3.degree.; 62.5% 5,6-dimethylpyrido[3,4-d]pyridazinedione, decompd. 333.degree. (the yield from di-Me ester of the acid was 70.2%); 5-hydroxy-2-methylpyrido[3,4-d]pyridazinedione, decompd. 308.degree.. Heating 2,5,6-trimethylpyridine-3,4-dicarboxy-N-phenylimide with N2H4.H2O in (CH2OH)2 6 hrs. gave 73% 2,5,6-trimethylpyrido[3,4-d]pyridazinedione, decompd. 316.degree.. Heating appropriate dicarboxylic acids with PhNH2 2-4 hrs. at 160-80.degree. gave the N-phenylimides of: 2,5-dimethylpyridine-3,4-dicarboxylic acid, 51%, m. 133.5-4.degree.; 2,5,6-trimethylpyridine-3,4-dicarboxylic acid, 62%, m. 152-4.degree.; 2,6-dimethylpyridine-3,4-dicarboxylic acid, 52.8%, m. 145-6.degree.; 5,6-Dimethyl-3,4-pyridinedicarboxylic acid dianilide, 40%, m. 190-2.degree..
IT 102479-67-4, 3,4-Pyridinedicarboxanilide, 5,6-dimethyl- (prepn. of)
RN 102479-67-4 CAPLUS
CN 3,4-Pyridinedicarboxanilide, 5,6-dimethyl- (6CI) (CA INDEX NAME)



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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

36.71

185.07

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-5.21

-5.21

STN INTERNATIONAL LOGOFF AT 12:50:51 ON 07 AUG 2003

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3	323	(514/307, 514/309, 514/311, 514/312, 514/355, 514/354, 546/141, 546/146, 546/156, 546/169, 546/316, 546/323, 546/313) and insecticide\$	USPAT	2003/08/12 14:46